# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

***Name of the work:*** **Estimate for Improvements to Roads and Drains at 1st A Main Nanjappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.**

| | 010-17-000003 | P0190 | | | | Estimate Cost: | | 2500000.00 | |
|---|---|---|---|---|---|---|---|---|---|
| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
| 1 | KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2014-16** | Cum | | | | | | | |
| | For CC Drain Nanjappa Layout 1st A Cross | | 1 | 280.00 | 1.00 | 1.00 | 280.00 | | |
| | | | 1 | 59.00 | 1.00 | 1.00 | 59.00 | | |
| | | | | | | | **339.00** | 83.16 | **28191.00** |
| | Basic Rate | 77.00 | | | | | | | |
| | Area Weightage @8% | 6.16 | | | | | | | |
| | **Total** | **83.16** | | | | | | | |
| 2 | KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2015-16** | Cum | | | | | | | |
| | For CC Drain Nanjappa Layout 1st A Cross | | 1 | 280.00 | 1.00 | 0.15 | 42.00 | | |
| | | | 1 | 59.00 | 1.00 | 0.15 | 8.85 | | |
| | | | | | | | **50.85** | 5070.60 | **257840.00** |
| | Basic Rate | 4695.00 | | | | | | | |
| | Area Weightage @ 8% | 375.60 | | | | | | | |
| | Total | **5070.60** | | | | | | | |
| 3 | Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC) for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2015-16** | Cum | | | | | | | |
| | Bottom Concrete | | 1 | 280.00 | 0.90 | 0.15 | 37.80 | | |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 59.00 | 0.90 | 0.15 | 7.97 | | |
| | Side Wall | | 2 | 280.00 | 0.15 | 0.60 | 50.40 | | |
| | | | 2 | 59.00 | 0.15 | 0.60 | 10.62 | | |
| | | | | | | | **106.79** | 6332.04 | **676167.00** |
| | Basic Rate | 5863.00 | | | | | | | |
| | Area Weightage @ 8% | 469.04 | | | | | | | |
| | Total | **6332.04** | | | | | | | |
| 4 | KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16** | Tonne | | | | | | | |
| | For Roof, Columns @ 70 Kg / Cum | | 0.070 | 106.79 | | | **7.47** | 59327.91 | **443473.00** |
| | Revised Basic Rate | 54933.25 | | | | | | | |
| | Area Weightage @ 8% | 4394.66 | | | | | | | |
| | Total | **59327.91** | | | | | | | |
| 5 | KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2015-16** | Sqm | | | | | | | |
| | CC Drain Side Wall | | 4 | 280.00 | | 0.60 | 672.00 | | |
| | | | 4 | 59.00 | | 0.60 | 141.60 | | |
| | | | | | | | **813.60** | 306.72 | **249547.00** |
| | Basic Rate | 284.00 | | | | | | | |
| | Area Weightage @ 8% | 22.72 | | | | | | | |
| | **Total** | **306.72** | | | | | | | |
| 6 | Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete7.5 cms thick **Page No. 25 / Item No. 5.31.1/ PWD SR 2015-16** | Sqm | | | | | | | |
| | For Covering Slab | | 1 | 280.00 | | 0.90 | 252.00 | | |
| | | | 1 | 59.00 | | 0.90 | 53.10 | | |
| | | | | 339.00 | | | **305.10** | 642.60 | **196057.00** |
| | Basic Rate | 595.00 | | | | | | | |
| | Area Weightage @ 8% | 47.60 | | | | | | | |
| | Total | **642.60** | | | | | | | |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 7 | KSRB 5-9: Providing chamfering edges to stone slab 2.5cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 **Page No. 24 / Item No. 5.22 / PWD SR 2015-16** | m | | | | | | | |
| | | | 565 | 3.00 | | | **1695.00** | 35.64 | **60410.00** |
| | Basic Rate | 33.00 | | | | | | | |
| | Area Weightage @ 8% | 2.64 | | | | | | | |
| | **Total** | **35.64** | | | | | | | |
| 8 | KSRB 5-8.2 : Providing two line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5-1.13 **Page No. 24 / Item No. 5.18 / PWD SR 2015-16** | Sqm | | | | | | | |
| | | | Qty Vide Item No. 06 | | | | 305.10 | | |
| | | | | | | | **305.10** | 924.48 | **282059.00** |
| | Basic Rate | 856.00 | | | | | | | |
| | Area Weightage @ 8% | 68.48 | | | | | | | |
| | **Total** | **924.48** | | | | | | | |
| 9 | KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2015-16** | Cum | | | | | | | |
| | Ramp | | 1 | 280.00 | 0.35 | 0.10 | 9.80 | | |
| | | | 1 | 59.00 | 0.30 | 0.10 | 1.77 | | |
| | | | | | | | **11.57** | 5490.72 | **63528.00** |
| | Basic Rate | 5084.00 | | | | | | | |
| | Area Weightage @ 8% | 406.72 | | | | | | | |
| | Total | **5490.72** | | | | | | | |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 10 | Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. **From 0.00 to 11.90 Km** ( PWD SR Rates P No 139 ) | Cum | | | | | | | |
| | | | Vide Item No. 1 | | | | **339.00** | 106.34 | **36048.00** |
| | Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46 | 30.46 | | | | | | | |
| | Add loading and unloading Charges **It No 17.1 KSRRB M 100-1** | 68.00 | | | | | | | |
| | | **98.46** | | | | | | | |
| | Area Weightage @ 8% | 7.88 | | | | | | | |
| | **Total** | **106.34** | | | | | | | |
| | Sub Total | | | | | | | | **2293320.00** |
| | KRIDL Charges @ 8% | | | | | | | | **183466.00** |
| | Third Party inspection Charges @ 1% | | | | | | | | **22933.00** |
| | Miscellaneous and other Charges | L/S | | | | | | | **281.00** |
| | | | | | | | | **Total** | **2500000.00** |
| | **Rupees Twenty Five Lakh(s) Only** | | | | | | | | |

**CERTIFICATE:**

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 This work included under 2016-17 Mayor Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer 16/8/16.
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

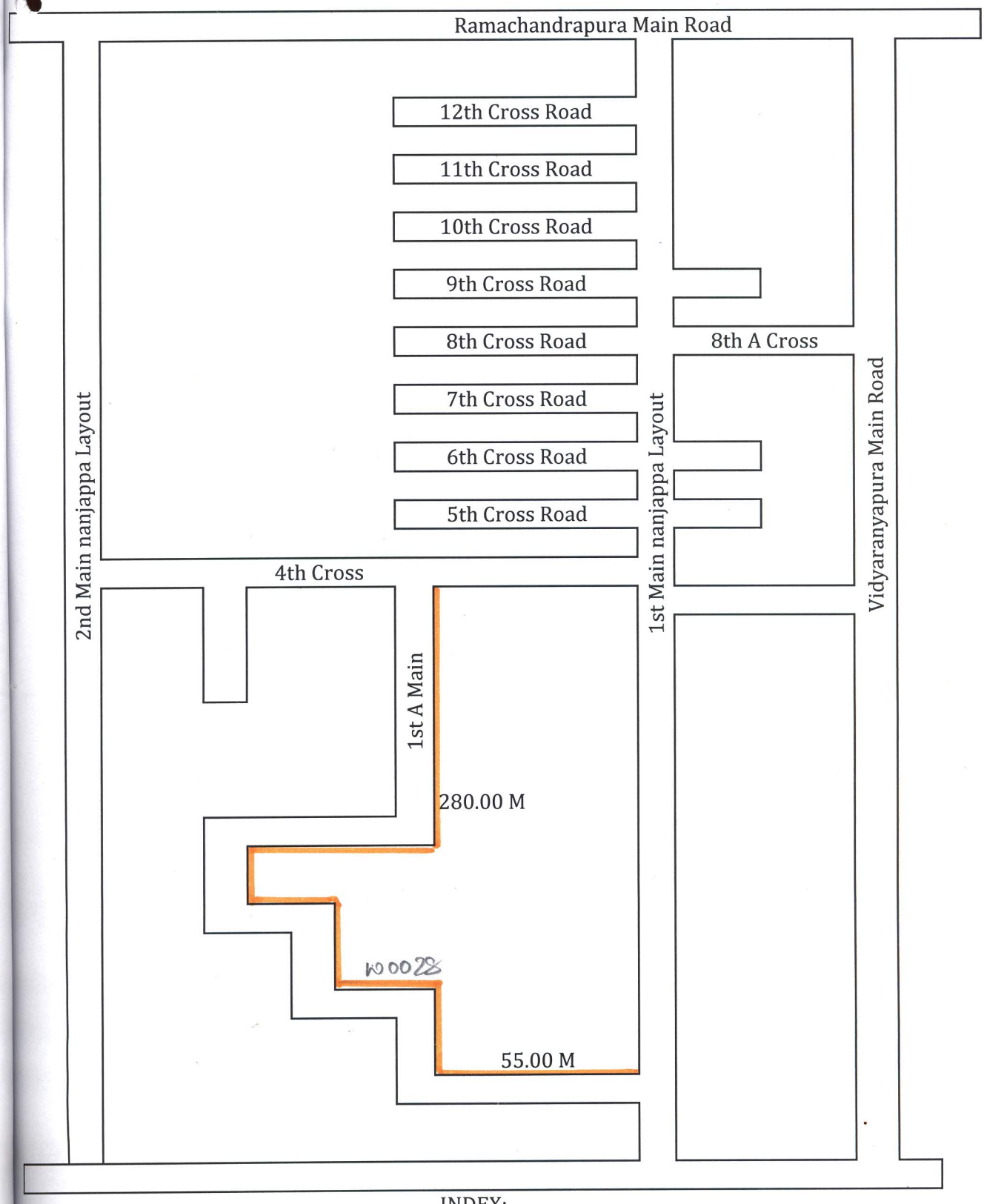
**Administrative Approval**
Accorded For "25.00" lakh Rs
Head of A/C..... P0190
CER NO :.....22..... Dt:..16.08.16

TA CE (YNK)

**Technical Sanction**
Accorded For "25.00" lakh Rs
Head of A/C..... P0190
CER NO :.....30..... Dt:..16.08.16

TA CE (YNK)

Sketch Showing the Work of Improvements to Roads and Drains at 1st A Main Nanjappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

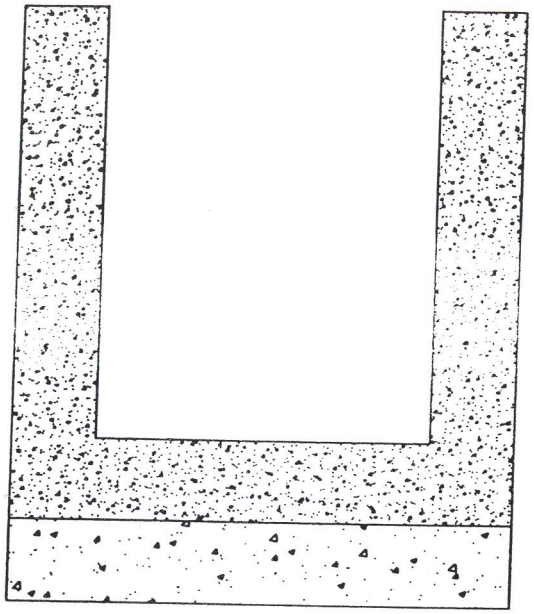



INDEX:

- Propsed CC Drain

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division



**CROSS-SECTION FOR DRAIN**

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.